VOLUME 24, PART I.

SUBJECT INDEX

A

Acidity.

A Method for Estimating Acidity of Oils. D. C. Cox. Report of Committee D-9, Appendix IV, 659.

Organic Acidity and Saponification. Report of Sub-Committee XIII, Committee D-2, 543.

Report of Max Hecht to the Duquesne Light Co., Pittsburgh, on Concentration Cell Method of D. C. Cox for Organic Acidity. Report of Sub-Committee XIII, Committee D-2, Appendix, 545.

Aggregates.

Concrete and Concrete Aggregates. Report of Committee C-9, 408. Addendum, 410.

Tentative Specifications for Broken Slag for Bituminous Concrete Base, 914.

Tentative Specifications for Broken Slag for Bituminous Concrete (Coarse-Graded Aggregate Type), 917.

Tentative Specifications for Broken Slag for Bituminous Concrete (Fine-Graded Aggregate Type), 919.

Tentative Specifications for Broken Slag for Bituminous Macadam Base, 912.

Tentative Specifications for Broken Slag for Bituminous Macadam Wearing Course, 915.

Tentative Specifications for Broken Stone for Bituminous Concrete Base, 908.

Tentative Specifications for Broken Stone for Bituminous Concrete Surface, 910.

Tentative Specifications for Broken Stone for Bitumonous Macadam, 906.

Tentative Specifications for Broken Stone for Waterbound Base, 902.

Tentative Specifications for Broken Stone for Waterbound Macadam Surface Course, 904.

Alloys.

Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.

Discussion on White Metal Alloys, 275.

Ferro-Alloys. Report of Committee A-9, 241.

High-Strength Light Alloys. E. Blough. Report of Committee B-2, Appendix II, 258.

Non-Ferrous Metals and Alloys. Report of Committee B-2, 242. Discussion, 275.

Tentative Revision of the Standard Specifications for Light Aluminum Casting Alloys, 1119.

Tentative Specifications for Light Aluminum Casting Alloys, 785.

Tentative Specifications for Manganese-Bronze Ingots for Sand Castings, 789.

Tentative Specifications for Manganese-Bronze Sand Castings, 791.

Tentative Specifications for Phosphor Copper, 781.

Tentative Specifications for Phosphor Tin, 779.

VOLUME 24, PART I.

SUBJECT INDEX

A

Acidity.

A Method for Estimating Acidity of Oils. D. C. Cox. Report of Committee D-9, Appendix IV, 659.

Organic Acidity and Saponification. Report of Sub-Committee XIII, Committee D-2, 543.

Report of Max Hecht to the Duquesne Light Co., Pittsburgh, on Concentration Cell Method of D. C. Cox for Organic Acidity. Report of Sub-Committee XIII, Committee D-2, Appendix, 545.

Aggregates.

Concrete and Concrete Aggregates. Report of Committee C-9, 408. Addendum, 410.

Tentative Specifications for Broken Slag for Bituminous Concrete Base, 914.

Tentative Specifications for Broken Slag for Bituminous Concrete (Coarse-Graded Aggregate Type), 917.

Tentative Specifications for Broken Slag for Bituminous Concrete (Fine-Graded Aggregate Type), 919.

Tentative Specifications for Broken Slag for Bituminous Macadam Base, 912.

Tentative Specifications for Broken Slag for Bituminous Macadam Wearing Course, 915.

Tentative Specifications for Broken Stone for Bituminous Concrete Base, 908.

Tentative Specifications for Broken Stone for Bituminous Concrete Surface, 910.

Tentative Specifications for Broken Stone for Bitumonous Macadam, 906.

Tentative Specifications for Broken Stone for Waterbound Base, 902.

Tentative Specifications for Broken Stone for Waterbound Macadam Surface Course, 904.

Alloys.

Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.

Discussion on White Metal Alloys, 275.

Ferro-Alloys. Report of Committee A-9, 241.

High-Strength Light Alloys. E. Blough. Report of Committee B-2, Appendix II, 258.

Non-Ferrous Metals and Alloys. Report of Committee B-2, 242. Discussion, 275.

Tentative Revision of the Standard Specifications for Light Aluminum Casting Alloys, 1119.

Tentative Specifications for Light Aluminum Casting Alloys, 785.

Tentative Specifications for Manganese-Bronze Ingots for Sand Castings, 789.

Tentative Specifications for Manganese-Bronze Sand Castings, 791.

Tentative Specifications for Phosphor Copper, 781.

Tentative Specifications for Phosphor Tin, 779.

Alloys (*Continued*):
Tentative Specifications for Seamless Muntz Metal Condenser Tubes and Ferrule Stock, 799.
Tentative Specifications for Seamless 70–30 Brass Condenser Tubes and Ferrule Stock, 794.
Tentative Specifications for Silicon Copper, 783.
The Effect of Impurities on the Compressive Strength and Brinell Hardness of Babbitt Metal at Normal and Elevated Temperatures. John R. Freeman, Jr., and Paul F. Brandt. Report of Committee B-2, Appendix I, 253. Discussion, 275

Aluminum.
High-Strength Light Alloys. E. Blough. Report of Committee B-2, Appendix II, 258.
Tentative Revision of the Standard Specifications for Light Aluminum Casting Alloys, 1119.
Tentative Specifications for Light Aluminum Casting Alloys, 785.

Annual Address.
Annual Address by the President, Guilliaem Aertsen, 41.

Annual Meeting.
Summary of the Proceedings of the Twenty-seventh Annual Meeting, 11.

Anti-Fouling Paints.
Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 491.

Asphalt.
Method for determination of asphalt content, 581.
Report of Sectional Committee on Asphalt Content. Report of Committee D-4, Appendix II, 581.
Tentative Specifications for Asphalt Cement, 85 to 100 Penetration, for Use in Asphalt Macadam Pavements, 920.
Tentative Specifications for Asphalt Cement, 100 to 120 Penetration, for Use in Asphalt Macadam Pavements, 921.
Tentative Specifications for Asphalt for Use in Damp-proofing and Waterproofing Above Ground Level, 1001.
Tentative Specifications for Asphalt for Use in Damp-proofing and Waterproofing Below Ground Level, 999.
Tentative Specifications for Asphalt Mastic for Use in Waterproofing, 1011.

B

Babbitt Metal.
Discussion on White Metal Alloys, 275.
The Effect of Impurities on the Compressive Strength and Brinell Hardness of Babbitt Metal at Normal and Elevated Temperatures. John R. Freeman, Jr., and Paul F. Brandt. Report of Committee B-2, Appendix I, 253. Discussion, 275.

Beams.
Design of concrete structures, 338.

Belting.
Tentative Specifications for Tolerances for Hose Ducks and Belt Ducks, 1063.

Bituminous Materials.
Asphalt Content. Report of Sectional Committee, Committee D-4, Appendix II, 581.
Method for determination of asphalt content, 581.
Tentative Method of Float Test for Bituminous Materials, 925.
Tentative Methods of Testing Bituminous Mastics, Grouts, and Like Mixtures, 1017.
Tentative Methods of Testing Cable Splicing and Pothead Compounds, 1046.
Tentative Specifications for Asphalt Cement, 85 to 100 Penetration, for Use in Asphalt Macadam Pavements, 920.
Tentative Specifications for Asphalt Cement, 100 to 120 Penetration, for Use in Asphalt Macadam Pavements, 921.
Tentative Specifications for Asphalt for Use in Damp-proofing and Waterproofing Above Ground Level, 1001.
Tentative Specifications for Asphalt for Use in Damp-proofing and Waterproofing Below Ground Level, 999.
Tentative Specifications for Asphalt Mastic for Use in Waterproofing, 1011.
Tentative Specifications for Bituminous Grout for Use in Waterproofing Above Ground Level, 1013.
Tentative Specifications for Bituminous Grout for Use in Waterproofing Below Ground Level, 1015.
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Damp-proofing and Waterproofing Above Ground Level, 1009.
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Damp-proofing and Waterproofing Below Ground Level, 1007.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Damp-proofing and Waterproofing Above Ground Level, 1005.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Damp-proofing and Waterproofing Below Ground Level, 1003.

Bone Boack.
Proposed Specifications for Bone Black, 483.

Brass.
Tentative Specifications for Seamless 70–30 Brass Condenser Tubes and Ferrule Stock, 794.

Brick.
Brick. Report of Committee C-3, 386.
Tentative Specifications for Concrete Building Brick, 813.

Bronze.
Tentative Specifications for Manganese-Bronze Ingots for Sand Castings, 789.
Tentative Specifications for Manganese-Bronze Sand Castings, 791.

Building Tile.
See **Tile.**

Burning Quality.
Tentative Method of Test for Burning Quality of Kerosene Oils, 888.

C

Cable Splicing.
Tentative Methods of Testing Cable Splicing and Pothead Compounds, 1046.

Carbon Residue.
Carbon Residue. Report of Sub-Committee XXIII, Committee D-2, 569.
Tentative Method of Test for Carbon Residue of Lubricants, 899.

Cast Iron.
Cast Iron. Report of Committee A-3, 213.

Castings.
Malleable Castings. Report of Committee A-7, 238.
Tentative Revision of the Standard Specifications for Light Aluminum Casting Alloys, 1119.
Tentative Specifications for Light Aluminum Casting Alloys, 785.
Tentative Specifications for Manganese-Bronze Ingots for Sand Castings, 789.
Tentative Specifications for Manganese-Bronze Sand Castings, 791.

Cement.
Cement. Report of Committee C-1, 296.
Fineness. Report of Sub-Committee III, Committee C-1: The Proposed Restoration of a No. 100 Sieve Requirement to the Standard Specifications for Portland Cement, 299.
Tentative Revision of the Standard Specifications and Tests for Portland Cement, 1120.

Cement Sacks.
Tentative Specifications and Tests for Osnaburg Cement Sacks, 1079.

Chain.
Discussion on proposed revised Specifications for Iron and Steel Chain, 211.

Chrome Green.
Proposed Specifications for Pure Chrome Green, 487.
Proposed Specifications for Reduced Chrome Green, 489.

Chrome Yellow.
Proposed Specifications for Chrome Yellow, 485.

Clay.
Clay and Cement-Concrete Sewer Pipe. Report of Committee C-4, 388.
Tentative Methods of Testing Electrical Porcelain, 1029.
Tentative Specifications and Tests for Hollow Burned-Clay Fireproofing, Partition and Furring Tile, 824.
Tentative Specifications and Tests for Hollow Burned-Clay Floor Tile, 829.
Tentative Specifications and Tests for Hollow Burned-Clay Load-Bearing Wall Tile, 818.

Cloud Point.
Cloud and Pour Test. Report of Sub-Committee XVI, Committee D-2, 550.

Coal.
Coal and Coke. Report of Committee D-5, 587.
Tentative Definitions of Terms Relating to Coal, 937.
Tentative Method of Test for Fineness of Powdered Coal, 929.

Coatings.
Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV, Committee D-1, 466.
Preservative Coatings for Structural Materials. Report of Committee D-1, 427.
Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 235.

Coke.
Coal and Coke. Report of Committee D-5, 587.
Tentative Definitions of Terms Relating to Coke, 934.
Color.
Color. Report of Sub-Committee VI, Committee D-2, 524.
Columns.
Design of concrete structures, 338.
Compression Testing.
Discussion on White Metal Alloys, 275.
Tentative Methods of Compression Testing of Metallic Materials, 1094.
The Effect of Impurities on the Compressive Strength and Brinell Hardness of Babbitt Metal at Normal and Elevated Temperatures. John R. Freeman, Jr., and Paul F. Brandt. Report of Committee B-2, Appendix I, 253. Discussion, 275.
Concrete.
Clay and Cement-Concrete Sewer Pipe. Report of Committee C-4, 388. Addendum, 410.
Concrete and Concrete Aggregates. Report of Committee C-9, 408.
Concrete in alkali soils or waters, 334.
Definitions relating to concrete, 315.
Depositing concrete, in air and under water, 325.
Design of concrete structures, 338.
Effect of Oils and Miscellaneous Liquids on Concrete and Method of Protective Treatment Where Required, 381.
Forms for concrete, 329.
Oilproofing concrete, 333.
Proportioning and mixing concrete, 323.
Proportions for Concrete of Given Compressive Strength at 28 Days, 376.
Reinforced Concrete. Report of Committee C-2, 302.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.
Resistance of tile to the action of alkalies and acids in the soil, 391.
Standard Specifications for Concrete and Reinforced Concrete, 312.
Supervision and Inspection of Concrete Construction, 384.
Surface finish of concrete, wearing surfaces and decorative finishes, 335.
Tentative Revision of the Standard Specifications for Cement-Concrete Sewer Pipe, 1120.
Tentative Specifications for Broken Slag for Bituminous Concrete Base, 914.
Tentative Specifications for Broken Slag for Bituminous Concrete (Coarse-Graded Aggregate Type), 917.
Tentative Specifications for Broken Slag for Bituminous Concrete (Fine-Graded Aggregate Type), 919.
Tentative Specifications for Broken Stone for Bituminous Concrete Base, 908.
Tentative Specifications for Broken Stone for Bituminous Concrete Surface, 910.
Tentative Specifications for Concrete Building Brick, 813.
Waterproofing and protective treatment of concrete, 333.
Condenser Tubes.
Tentative Specifications for Seamless Muntz Metal Condenser Tubes and Ferrule Stock, 799.
Tentative Specifications for Seamless 70–30 Brass Condenser Tubes and Ferrule Stock, 794.

Consistency.
Proposed Method of Test for the Penetration of Cup and Railroad Greases. Report of Sub-Committee IV, Committee D-2, Appendix, 518.
Copper.
Tentative Revision of the Standard Specifications for Electrolytic Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 1118.
Tentative Revision of the Standard Specifications for Lake Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 1117.
Tentative Specifications for Phosphor Copper, 781.
Tentative Specifications for Silicon Copper, 783.
Corrosion.
Accelerated electrolytic test, 292.
Accelerated Tests. Report of Sub-Committee VII, Committee A-5, 234.
Alternate Immersion Test, 290.
Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 491.
Corrosion of Iron and Steel. Report of Committee A-5, 220.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Inspection of the Fort Sheridan, Pittsburgh, and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 223.
Spray test, 291.
Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 235.
Total immersion test, 289.
Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 226.
Cotton.
Tentative Specifications for Tolerances and Test Methods for Cotton Sewing Threads, 1076.
Tentative Specifications for Tolerances and Test Methods for Cotton Yarns, Single and Plied, 1066.
Tentative Specifications for Tolerances and Test Methods for Electrical Cotton Yarns, 1071.

D

Damp-proofing.
See **Waterproofing.**
Definitions of Terms.
Definitions of Terms Used in Paint Specifications. Report of Sub-Committee VI, Committee D-1, 441.
Definitions relating to concrete, 315.
Nomenclature and Definitions. Report of Committee E-8, 746.
Nomenclature. Report of Sub-Committee XX, Committee D-2, 563.
Report of Special Sub-Committee to Consider Definitions for Specific Gravity Reported by Committee E-8. Report of Committee D-4, Appendix I, 579.
Tentative Definition of the Term Sand, 851.
Tentative Definitions of Terms Relating to Coal, 937.
Tentative Definitions of Terms Relating to Coke, 934.
Tentative Definitions of Terms Relating to Lime, 848.
Tentative Definitions of Terms Relating to Methods of Testing, 1109.
Tentative Definitions of Terms Relating to the Gypsum Industry, 849.
Tentative Revision of the Standard Definitions of Terms Relating to Paint Specifications, 1124.

Deoxidizers.
Tentative Specifications for Phosphor Copper, 781.
Tentative Specifications for Phosphor Tin, 779.
Tentative Specifications for Silicon Copper, 783.

Dielectric Strength.
Dielectric Power Loss and Power Factor of the Charging Current in Insulating Materials. Report of Committee D-9, Appendix III, 651.
Dielectric Strength of Electrical Insulating Materials. Report of Committee D-9, Appendix II, 642.
Tentative Methods of Testing Cable Splicing and Pothead Compounds, 1046.
Tentative Methods of Testing Electrical Porcelain, 1029.
Tentative Methods of Testing Insulating Varnishes, 1023.
Tentative Methods of Testing Sheet and Tape Insulating Materials for Dielectric Strength, 1039.

Distillation.
Distillation. Report of Sectional Committee, Committee D-4, Appendix III, 584.
Distillation. Report of Sub-Committee VIII, Committee D-2, 527.
Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosene, and Similar Petroleum Products, 864.

Drain Tile.
Drain Tile. Report of Committee C-6, 391.
Resistance of tile to the action of alkalies and acids in the soil, 391.

Duralumin.
High-Strength Light Alloys. E. Blough. Report of Committee B-2, Appendix II, 258.

E

Emulsification.
Emulsification. Report of Sub-Committee XI, Committee D-2, 531.
Emulsifying properties of oils, using alkaline solutions, 535.
Sinclair Emulsion Test for Lubricating Oils, Report of Sub-Committee XI, Committee D-2, Appendix, 538.

Endurance Testing.
Third Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Endurance Properties of Rivet Steel, 96.

Executive Committee.
Annual Report of the Executive Committee, 47.

F

Fabrics.
Tentative Specifications for Tolerances for Hose Ducks and Belt Ducks, 1063.

Ferro-Alloys.
Ferro-Alloys. Report of Committee A-9, 241.

Fireproofing.
Tentative Revision of the Standard Specifications for Fire Tests of Materials and Constructive, 1120.
Tentative Specifications and Tests for Hollow Burned-Clay Fireproofing, Partition and Furring Tile, 824.

Flash Point.
Flash. Report of Sub-Committee XII, Committee D-2, 539.
Summary of results showing comparison of flash and fire tests by the open cup, solid plate and open cup cut-out plate methods, 541.

Float Test.
Tentative Method of Float Test for Bituminous Materials, 925.

Fluxes.
Tentative Specifications for Phosphor Copper, 781.
Tentative Specifications for Phosphor Tin, 779.
Tentative Specifications for Silicon Copper, 783.

Footings.
Design of concrete structures, 338.

Free Acid.
Tentative Method of Test for Free Acid in Lubricants, 898.

G

Galvanizing.
Specifications for Galvanized Sheets. Report of Sub-Committee VI, Committee A-5, 233.
Tentative Specifications for Hot-Dipped Galvanized Sheets, 775.

Gas Oil.
Gas Oil. Report of Sub-Committee XVIII, Committee D-2, 558.

Gasoline.
Gasoline. Report of Sub-Committee XVII, Committee D-2, 557.
Natural Gas Gasoline. Report of Sub-Committee XXII, Committee D-2, 568.
Preliminary summary in study of gasoline yield from three crude oils by three different methods, 567.
Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosene, and Similar Petroleum Products, 864.

Grease.
Grease. Report of Sub-Committee IV, Committee D-2, 513.
Proposed Method of Test for the Penetration of Cup and Railroad Greases. Report of Sub-Committee IV, Committee D-2, Appendix, 518.
Tentative Method of Analysis of Grease, 874.

Grout.
Tentative Methods of Testing Bituminous Mastics, Grouts and Like Mixtures, 1017.
Tentative Specifications for Bituminous Grout for Use in Waterproofing Above Ground Level, 1013.
Tentative Specifications for Bituminous Grout for Use in Waterproofing Below Ground Level, 1015.

Gypsum.
Gypsum. Report of Committee C-11, 423.
Tentative Definitions of Terms Relating to the Gypsum Industry, 849.
Tentative Specifications for Gypsum, 834.
Tentative Specifications for Gypsum Partition Tile or Block, 840.
Tentative Specifications for Gypsum Plastering Sand, 837.
Tentative Specifications for Gypsum Wall Board, 838.

H

Hardness Testing.
Tentative Methods of Brinell Hardness Testing of Metallic Materials, 1099.
The Effect of Impurities on the Compressive Strength and Brinell Hardness of Babbitt Metal at Normal and Elevated Temperatures. John R. Freeman, Jr., and Paul F. Brandt. Report of Committee B-2, Appendix I, 253. Discussion, 275.

Heat Treatment.
Heat Treatment of Iron and Steel. Report of Committee A-4, 217.
Microstructural and thermal changes in low-carbon steel in cooling from above the critical range, 170.
Tentative recommended practice in the heat treatment of 18-per-cent tungsten high-speed steel, Specifications for High-Speed Tool Steel, 771.
Tentative recommended practice in the heat treatment of plain carbon tool steel, Specifications for Carbon Tool Steel, 765.

Hollow Building Tile.
Hollow Building Tile. Report of Committee C-10, 411.
Results of freezing tests to determine weathering resistance of building tile, 418.
Summary of results of compression and absorption tests of building tile, 412.

Hose.
Tentative Specifications for Steam Hose, 1059.
Tentative Specifications for Tolerances for Hose Ducks and Belt Ducks, 1063.

Hydrated Lime.
See **Lime.**

I

Illuminating Oils.
Illuminating Oils. Report of Sub-Committee XIX, Committee D-2, 559.
Relation between iodine number of long-time burning oils and burning quality, with especial reference to smoke tendency, 559.
Tentative Method of Test for Burning Quality of Kerosene Oils, 888.
Tentative Method of Test for Distillation of Gasoline, Naptha, Kerosene, and Similar Petroleum Products, 864.
Tentative Method of Test for Sulfur in Naphthas and Illuminating Oils, 894.

Impact Testing.
Tentative Methods of Testing Electrical Porcelain, 1029.

Ingots.
Tentative Revision of the Standard Specifications for Electrolytic Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 1118.
Tentative Revision of the Standard Specifications for Lake Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 1117.
Tentative Specifications for Manganese-Bronze Ingots for Sand Castings, 789.

Insulating Materials.
A Method for Estimating Acidity of Oils. D. C. Cox. Report of Committee D-9, Appendix IV, 659.
Dielectric Power Loss and Power Factor of the Charging Current in Insulating Materials. Report of Committee D-9, Appendix III, 651.
Dielectric Strength of Electrical Insulating Materials. Report of Committee D-9, Appendix II, 642.
Electrical Insulating Materials. Report of Committee D-9, 626.

Insulating Materials (*Continued*):
Life Test for Transformer Oils. E. A. Snyder. Report of Committee D-9, Appendix I, 638.
Tentative Methods of Testing Cable Splicing and Pothead Compounds, 1046.
Tentative Methods of Testing Electrical Porcelain, 1029.
Tentative Methods of Testing Insulating Varnishes, 1023.
Tentative Methods of Testing Sheet and Tape Insulating Materials for Dielectric Strength, 1039.
Tentative Methods of Testing Untreated Insulating Paper, 1051.

Iron.
Cast Iron. Report of Committee A-3, 213.
Corrosion of Iron and Steel. Report of Committee A-5, 220.
Discussion on proposed revised Specifications for Iron and Steel Chain, 211.
Heat Treatment of Iron and Steel. Report of Committee A-4, 217.
Inspection of the Fort Sheridan, Pittsburgh, and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 223.
Malleable Castings. Report of Committee A-7, 238.
Photographs of Altoona Panels, Inspections of May 1, 1924. Report of Sub-Committee XIV, Committee D-1, Appendix, 468.
Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV, Committee D-1, 466.
Revisions of Standards and Tentative Standards for Wrought Iron. Report of Committee A-2, Appendix, 209.
Tentative Specifications for Hot-Dipped Galvanized Sheets, 775.
Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 226.
Wrought Iron. Report of Committee A-2, 206. Discussion, 211.

Iron Hydroxide.
Tentative Specifications for Iron Oxide and Iron Hydroxide, 852.

Iron Oxide.
Tentative Specifications for Iron Oxide and Iron Hydroxide, 852.

K

Kerosene.
Tentative Method of Test for Burning Quality of Kerosene Oils, 888.
Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosene, and Similar Petroleum Products, 864.

L

Lampblack.
Proposed Specifications for Lampblack, 481.

Lead.
Commercial Practice Relating to Sizes of Lead Pipe. W. A. Cowan. Report of Committee B-2, Appendix III, 265.

Lime.
Electrical Resistance Methods for the Determination of the Time of Set of Lime Plaster. J. W. Stockett, Jr. Report of Committee C-7, Appendix, 404.
Lime. Report of Committee C-7, 397.
Preparation of lime putty, Specifications for Quicklime for Structural Purposes, 802.

Lime (*Continued*):
Tentative Definitions of Terms Relating to Lime, 848.
Tentative Methods of Sampling, Inspection, Packing and Marking of Quicklime and Lime Products, 844.
Tentative Specifications for Hydrated Lime for Use in Water Treatment, 811.
Tentative Specifications for Quicklime and Hydrated Lime for Use in the Cooking of Rags for the Manufacture of Paper, 805.
Tentative Specifications for Quicklime for Structural Purposes, 802.
Tentative Specifications for Quicklime for the Manufacture of Sulfite Pulp, 807.
Tentative Specifications for Quicklime for Use in Water Treatment, 809.

Linseed Oil.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 432.

Lithopone.
Proposed Specifications for Lithopone, 479.

Lubricants.
Emulsifying properties of oils, using alkaline solutions, 535.
Grease. Report of Sub-Committee IV, Committee D-2, 513.
Proposed Method of Test for the Penetration of Cup and Railroad Greases. Report of Sub-Committee IV, Committee D-2, Appendix, 518.
Petroleum Products and Lubricants. Report of Committee D-2, 505.
Sinclair Emulsion Test for Lubricating Oils. Report of Sub-Committee XI, Committee D-2, Appendix, 538.
Tentative Method of Analysis of Grease, 874.
Tentative Method of Test for Carbon Residue of Lubricants, 899.
Tentative Method of Test for Free Acid in Lubricants, 898.
Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 883.

M

Macadam.
Tentative Specifications for Asphalt Cement, 85 to 100 Penetration, for Use in Asphalt Macadam Pavements, 920.
Tentative Specifications for Asphalt Cement, 100 to 120 Penetration, for Use in Asphalt Macadam Pavements, 921.
Tentative Specifications for Broken Slag for Bituminous Macadam Base, 912.
Tentative Specifications for Broken Slag for Bituminous Macadam Wearing Course, 915.
Tentative Specifications for Broken Stone for Bituminous Macadam, 906.
Tentative Specifications for Broken Stone for Waterbound Macadam Surface Course, 904.

Magnetic Testing.
Magnetic Analysis. Report of Committee A-8, 239.
Magnetic Properties. Report of Committee A-6, 237.

Malleable Castings.
Malleable Castings. Report of Committee A-7, 238.

Manganese Bronze.
Tentative Specifications for Manganese-Bronze Ingots for Sand Castings, 789.
Tentative Specifications for Manganese-Bronze Sand Castings, 791.

Mastic.
Tentative Methods of Testing Bituminous Mastics, Grouts and Like Mixtures, 1017.
Tentative Specifications for Asphalt Mastic for Use in Waterproofing, 1011.

Mechanical Analysis.
Tentative Method of Mechanical Analysis of Subgrade Soils, 922.
Tentative Method of Test for Coarse Particles in Paint Pigments, 857.
Tentative Method of Test for Fineness of Powdered Coal, 929.

Melting Point.
Tentative Method of Test for Melting Point of Petrolatum, 872.

Metallography.
Bibliography of Etching. Report of Committee E-4, Appendix, 738.
Discussion on sulfur prints of steel, 181.
Fourth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Metallographic Investigation of Effect of Sulfur on Rivet Steel, 108. Discussion, 181.
Investigation of non-metallic inclusions in rivet steel, 130.
Metallography. Report of Committee E-4, 736. Discussion, 740.
Microstructural and thermal changes in low-carbon steel in cooling from above the critical range, 170.

Muntz Metal.
Tentative Specifications for Seamless Muntz Metal Condenser Tubes and Ferrule Stock, 799.

N

Naphtha.
Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosene, and Similar Petroleum Products, 864.
Tentative Method of Test for Sulfur in Naphthas and Illuminating Oils, 894.

Nomenclature.
See **Definitions.**

Non-Ferrous Metals.
Commercial Practice Relating to Sizes of Lead Pipe. W. A. Cowan. Report of Committee B-2, Appendix III, 265.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 242. Discussion, 275.
Results of tests on non-ferrous metals to show the effect of speed of testing, 730.

O

Oils.
A Method for Estimating Acidity of Oils. D. C. Cox. Report of Committee D-9, Appendix IV, 659.
A Proposed Modification of the A.S.T.M. Pour Test Applicable to those Oils which Give Erratic Results by the Present Method. J. B. Rather and H. M. Anderson. Report of Sub-Committee XVI, Committee D-2, Appendix, 553.
Emulsifying properties of oils, using alkaline solutions, 535.
Gas Oil. Report of Sub-Committee XVIII, Committee D-2, 558.
Illuminating Oils. Report of Sub-Committee XIX, Committee D-2, 559.
Life Test for Transformer Oils. E. A. Snyder. Report of Committee D-9, Appendix I, 638.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 432.
Method for determination of asphalt content, 581.
Relation between iodine number of long-time burning oils and burning quality, with especial reference to smoke tendency, 559.

Oils (*Continued*):
Sinclair Emulsion Test for Lubricating Oils. Report of Sub-Committee XI, Committee D-2, Appendix, 538.
Tentative Method of Test for Burning Quality of Kerosene Oils, 888.
Tentative Method of Test for Sulfur in Naphthas and Illuminating Oils, 894.

Osnaburg.
Tentative Specifications and Tests for Osnaburg Cement Sacks, 1079.

Oxidation.
Oxidation at High Temperatures. Report of Sub-Committee X, Committee D-2, 530.

P

Paints.
Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 491.
Definitions of Terms Used in Paint Specifications. Report of Sub-Committee VI, Committee D-1, 441.
Methods of Analysis and Reports of Collaborators on the Analysis of Titanium Pigments. Report of Sub-Committee VIII, Committee D-1, Appendix, 443.
Methods of Analysis of Paint Materials. Report of Sub-Committee VIII, Committee D-1, 442.
Photographs of Altoona Panels, Inspections of May 1, 1924. Report of Sub-Committee XIV, Committee D-1, Appendix, 468.
Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV, Committee D-1, 466.
Tentative Revision of the Standard Definitions of Terms Relating to Paint Specifications, 1124.
Testing of Paint Vehicles. Report of Sub-Committee III, Committee D-1, 430.

Paint Vehicles.
Testing of Paint Vehicles. Report of Sub-Committee III, Committee D-1, 430.

Paper.
Tentative Methods of Testing Untreated Insulating Paper, 1051.
Tentative Specifications for Quicklime and Hydrated Lime for Use in the Cooking of Rags for the Manufacture of Paper, 805.
Tentative Specifications for Quicklime for Use in the Manufacture of Sulfite Pulp, 807.

Paraffin Wax.
Paraffin Wax. Report of Sub-Committee III, Committee D-2, 511.

Penetration.
Proposed Method of Test for the Penetration of Cup and Railroad Greases. Report of Sub-Committee IV, Committee D-2, Appendix, 518.

Petrolatum.
Petrolatum. Report of Sub-Committee I, Committee D-2, 509.
Tentative Method of Test for Melting Point of Petrolatum, 872.

Petroleum Products.
Crude Petroleum. Report of Sub-Committee XXI, Committee D-2, 566.
Preliminary summary in study of gasoline yield from three crude oils by three different methods, 567.
Petroleum Products and Lubricants. Report of Committee D-2, 505.

Petroleum Products (*Continued*):
Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosene, and Similar Petroleum Products, 864.
Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 883.

Phosphorus.
Fifth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Structural Steel, 185.
Fourth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Metallographic Investigation of Effect of Sulfur on Rivet Steel, 108. Discussion, 181.
Tentative Specifications for Phosphor Copper, 781.
Tentative Specifications for Phosphor Tin, 779.
Third Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Enducance Properties of Rivet Steel, 96.

Pigments.
Methods of Analysis and Reports of Collaborators on the Analysis of Titanium Pigments. Report of Sub-Committee VIII, Committee D-1, Appendix, 443.
Proposed Specifications for Bone Black, 483.
Proposed Specifications for Chrome Yellow, 485.
Proposed Specifications for Lampblack, 481.
Proposed Specifications for Lithopone, 479.
Specifications for Pigments Dry and in Oil, when Marketed in that Form. Report of Sub-Committee XV, Committee D-1, 477.
Proposed Specifications for Pure Chrome Green, 487.
Proposed Specifications for Reduced Chrome Green, 489.
Tentative Method of Test for Coarse Particles in Paint Pigments, 857.
Tentative Methods of Routine Analysis of Titanium Pigments, 859.
Tentative Specifications for Iron Oxide and Iron Hydroxide, 852.

Pipe.
Clay and Cement-Concrete Sewer Pipe. Report of Committee C-4, 388.
Commercial Practice Relating to Sizes of Lead Pipe. W. A. Cowan. Report of Committee B-2, Appendix III, 265.
Tentative Revision of the Standard Specifications for Cement-Concrete Sewer Pipe, 1120.

Pitch.
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Dampproofing and Waterproofing Above Ground Level, 1009.
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Dampproofing and Waterproofing Below Ground Level, 1007.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Dampproofing and Waterproofing Above Ground Level, 1005.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Dampproofing and Waterproofing Below Ground Level, 1003.

Plaster.
Electrical Resistance Methods for the Determination of the Time of Set of Lime Plaster. J. W. Stockett, Jr. Report of Committee C-7, Appendix, 404.
Tentative Specifications for Gypsum Plastering Sand, 837.

Porcelain.
Tentative Methods of Testing Electrical Porcelain, 1029.

Pothead Compounds.
Tentative Methods of Testing Cable Splicing and Pothead Compounds, 1046.

Pour Point.
Cloud and Pour Test. Report of Sub-Committee XVI, Committee D-2, 550.
A Proposed Modification of the A.S.T.M. Pour Test Applicable to those Oils which Give Erratic Results by the Present Method. J. B. Rather and H. M. Anderson. Report of Sub-Committee XVI, Committee D-2, Appendix, 553.

Power Factor.
Dielectric Power Loss and Power Factor of the Charging Current in Insulating Materials. Report of Committee D-9, Appendix III, 651.

Precipitation.
Precipitation. Report of Sub-Committee IX, Committee D-2, 528.

Preservatives.
Preservative Coatings for Structural Materials. Report of Committee D-1, 427.
Timber Preservatives. Report of Sub-Committee VI, Committee D-7, 611.

Publications.
Papers and Publications. Report of Committee E-6, 743.

Q

Quicklime.
See **Lime.**

R

Reinforced Concrete.
Reinforced Concrete. Report of Committee C-2, 302.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.
Standard Specifications for Concrete and Reinforced Concrete, 312.

Research.
Report of the Executive Committee on organization of a committee on research, 58.

Rivets.
Fourth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Metallographic Investigation of Effect of Sulfur on Rivet Steel, 108. Discussion, 181.
Third Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Endurance Properties of Rivet Steel, 96.

Road Materials.
Method for determination of asphalt content, 581.
Report of Sectional Committee on Asphalt Content. Report of Committee D-4, Appendix II, 581.
Report of Special Sub-Committee to Consider Definitions for Specific Gravity Reported by Committee E-8. Report of Committee D-4, Appendix I, 579.
Road and Paving Materials. Report of Committee D-4, 571. Addendum, 585.
Tentative Method of Float Test for Bituminous Materials, 925.
Tentative Method of Mechanical Analysis of Subgrade Soils, 922.
Tentative Revision of the Standard Specifications for Broken Slag for Water-bound Base and Wearing Course, 1123.

Road Materials (*Continued*):
Tentative Revision of the Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 1123.
Tentative Specifications for Asphalt Cement, 85 to 100 Penetration, for Use in Asphalt Macadam Pavements, 920.
Tentative Specifications for Asphalt Cement, 100 to 120 Penetration, for Use in Asphalt Macadam Pavements, 921.
Tentative Specifications for Broken Slag for Bituminous Concrete Base, 914.
Tentative Specifications for Broken Slag for Bituminous Concrete (Coarse-Graded Aggregate Type), 917.
Tentative Specifications for Broken Slag for Bituminous Concrete (Fine-Graded Aggregate Type), 919.
Tentative Specifications for Broken Slag for Bituminous Macadam Base, 912.
Tentative Specifications for Broken Slag for Bituminous Macadam Wearing Course, 915.
Tentative Specifications for Broken Stone for Bituminous Concrete Base, 908.
Tentative Specifications for Broken Stone for Bituminous Concrete Surface, 910.
Tentative Specifications for Broken Stone for Bituminous Macadam, 906.
Tentative Specifications for Broken Stone for Waterbound Base, 902.
Tentative Specifications for Broken Stone for Waterbound Macadam Surface Course, 904.

Rubber Products.
Rubber Products. Report of Committee D-11, 666.
Tentative Specifications for Steam Hose, 1059.

S

Sacks.
Tentative Specifications and Tests for Osnaburg Cement Sacks, 1079.

Sand.
Tentative Definition of the Term Sand, 851.
Tentative Specifications for Gypsum Plastering Sand, 837.

Saponification.
Organic Acidity and Saponification. Report of Sub-Committee XIII, Committee D-2, 543.

Sewer Pipe.
Clay and Cement-Concrete Sewer Pipe. Report of Committee C-4, 388.
Tentative Revision of the Standard Specifications for Cement-Concrete Sewer Pipe, 1120.

Sheet.
Specifications for Galvanized Sheets. Report of Sub-Committee VI, Committee A-5, 233.
Tentative Methods of Testing Sheet and Tape Insulating Materials for Dielectric Strength, 1039.
Tentative Specifications for Hot-Dipped Galvanized Sheets, 775.

Shellac.
Results of collaborative tests on shellac, 463.
Shellac. Report of Sub-Committee XIII, Committee D-1, 462.
Tentative Method of Test for Determination of Wax in Shellac, 856.
Tentative Revision of the Standard Methods of Testing Shellac, 1123.

Shipping Containers.
Chart for determining thickness of sides, tops and bottoms of boxes, 663.
Shipping Containers. Report of Committee D-10, 661.

Sieves.
Comparison of Specifications and Dimensions of Testing Sieves. Report of Committee E-1, Appendix II, 719.
List of Points to be Considered in Drawing up Specifications for a Sieving Test. Report of Committee E-1, Appendix I, 718.
Proposed series of testing sieves, 712.

Silicon.
Tentative Specifications for Silicon Copper, 783.

Slag.
Tentative Revision of the Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 1123.
Tentative Revision of the Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 1123.
Tentative Specifications for Broken Slag for Bituminous Concrete Base, 914.
Tentative Specifications for Broken Slag for Bituminous Concrete (Coarse-Graded Aggregate Type), 917.
Tentative Specifications for Broken Slag for Bituminous Concrete (Fine-Graded Aggregate Type), 919.
Tentative Specifications for Broken Slag for Bituminous Macadam Base, 912.
Tentative Specifications for Broken Slag for Bituminous Macadam Wearing Course, 915.

Soils.
Tentative Method of Mechanical Analysis of Subgrade Soils, 922.

Specific Gravity.
Memorandum on Specific Gravity. Report of Committee E-8, Appendix, 760.
Report of Special Sub-Committee to Consider Definitions for Specific Gravity Reported by Committee E-8. Report of Committee D-4, Appendix I, 579.

Steel.
Annual Address by the President, 44.
Corrosion of Iron and Steel. Report of Committee A-5, 220.
Discussion on proposed revised Specifications for Iron and Steel Chain, 211.
Discussion on sulfur prints of steel, 181.
Fifth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Structural Steel, 185.
Fourth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Metallographic Investigation of Effect of Sulfur on Rivet Steel, 108. Discussion, 181.
Heat Treatment of Iron and Steel. Report of Committee A-4, 217.
Inspection of the Fort Sheridan, Pittsburgh, and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 223.
Investigation of non-metallic inclusions in rivet steel, 130.
Microstructural and thermal changes in low-carbon steel in cooling from above the critical range, 170.
Photographs of Altoona Panels, Inspections of May 1, 1924. Report of Sub-Committee XIV, Committee D-1, Appendix, 468.
Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV, Committee D-1, 466.

Steel (*Continued*):
Proposed Revisions in Standards and Tentative Standards for Steel. Report of Committee A-1, Appendix, 73.
Steel. Report of Committee A-1, 65.
Tentative Specifications for Carbon Tool Steel, 765.
Tentative Specifications for High-Speed Tool Steel, 771.
Tentative Specifications for Hot-Dipped Galvanized Sheets, 775.
Third Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Endurance Properties of Rivet Steel, 96.
Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 226.

Stone.
Tentative Specifications for Broken Stone for Bituminous Concrete Base, 908.
Tentative Specifications for Broken Stone for Bituminous Concrete Surface, 910.
Tentative Specifications for Broken Stone for Bituminous Macadam, 906.
Tentative Specifications for Broken Stone for Waterbound Base, 902.
Tentative Specifications for Broken Stone for Waterbound Macadam Surface Course, 904.

Subgrade.
Tentative Method of Mechanical Analysis of Subgrade Soils, 922.

Sulfur.
Discussion on sulfur prints of steel, 181.
Fifth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Structural Steel, 185.
Fourth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Metallographic Investigation of Effect of Sulfur on Rivet Steel, 108. Discussion, 181.
Gasoline. Report of Sub-Committee XVII, Committee D-2, 557.
Sulfur Determination and Differentiation. Report of Sub-Committee VII, Committee D-2, 525.
Tentative Method of Test for Sulfur in Naphthas and Illuminating Oils, 894.
Third Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Endurance Properties of Rivet Steel, 96.

Summary of the Proceedings.
Summary of the Proceedings of the Twenty-seventh Annual Meeting, 11.

T

Tape.
Tentative Methods of Testing Sheet and Tape Insulating Materials for Dielectric Strength, 1039.

Tar.
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Dampproofing and Waterproofing Above Ground Level, 1009.
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Dampproofing and Waterproofing Below Ground Level, 1007.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Dampproofing and Waterproofing Above Ground Level, 1005.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Dampproofing and Waterproofing Below Ground Level, 1003.

Tension Testing.
Results of tests on non-ferrous metals to show the effect of speed of testing, 730.
Tentative Methods of Tension Testing of Metallic Materials, 1081.

Testing Machines.
Tentative Method of Verification of Testing Machines by Means of an Elastic Calibration Bar, 1106.

Testing, Methods of.
Classification of A.S.T.M. methods according to type of test, 698.
Results of tests on non-ferrous metals to show the effect of speed of testing, 730.
Tentative Definitions of Terms Relating to Methods of Testing, 1109.
Methods of Testing. Report of Committee E-1, 697. Discussion, 725.
Methods of Testing. Report of Sub-Committee IX, Committee D-7, 614.

Textile Materials.
Tentative Specifications and Tests for Osnaburg Cement Sacks, 1079.
Tentative Specifications for Tolerances and Test Methods for Cotton Sewing Threads, 1076.
Tentative Specifications for Tolerances and Test Methods for Cotton Yarns, Single and Plied, 1066.
Tentative Specifications for Tolerances and Test Methods for Electrical Cotton Yarns, 1071.
Tentative Specifications for Tolerances for Hose Ducks and Belt Ducks, 1063.
Textile Materials. Report of Committee D-13, 670.

Thermometers.
Proposed Specifications for A.S.T.M. Cloud and Pour Test Thermometer, −38 to +50° C., −36 to +120° F., 683.
Proposed Specifications for A.S.T.M. High-Distillation Thermometer, 0 to 400° C., 30 to 760° F., 693.
Proposed Specifications for A.S.T.M. High-Softening-Point Thermometer, 30 to 160° C., 85 to 320° F., 689.
Proposed Specifications for A.S.T.M. Low-Distillation Thermometer, 0 to 300° C., 30 to 580° F., 691.
Proposed Specifications for A.S.T.M. Low-Softening-Point Thermometer, 0 to 80° C., 30 to 180° F., 687.
Proposed Specifications for A.S.T.M. Paraffin Melting Point Thermometer, 27 to 71° C., 80 to 160° F., 695.
Proposed Specifications for A.S.T.M. Pensky-Martens and Tag Flash Test Thermometer, −7 to +110° C., +20 to +230° F., 685.
Proposed Specifications for A.S.T.M. Pensky-Martens High Flash Test Thermometer, 90 to 370° C., 200 to 700° F., 681.
Proposed Specifications for A.S.T.M. Thermometer for Cleveland Open Cup, −6 to +400° C., +20 to +760° F., 679.
Specifications for high-distillation thermometer, Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosene, and Similar Petroleum Products, 864.
Specifications for low-distillation thermometer, Tentative Method of Test for Distillation of Gasoline, Naphtha, Kerosene, and Similar Petroleum Products, 864.
Specifications for low-softening-point thermometer, Tentative Method of Float Test for Bituminous Materials, 925.

Thermometers (*Continued*):
Specifications for thermometers used in viscosity tests, Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 883.
Thermometers. Report of Committee D-15, 675.

Threads.
Tentative Specifications for Tolerances and Test Methods for Cotton Sewing Threads, 1076.

Tile.
Drain Tile. Report of Committee C-6, 391.
Hollow Building Tile. Report of Committee C-10, 411.
Resistance of tile to the action of alkalies and acids in the soil, 391.
Results of freezing tests to determine weathering resistance of building tile, 418.
Summary of results of compression and absorption tests of building tile, 412.
Tentative Specifications and Tests for Hollow Burned-Clay Fireproofing, Partition and Furring Tile, 824.
Tentative Specifications and Tests for Hollow Burned-Clay Floor Tile, 829.
Tentative Specifications and Tests for Hollow Burned-Clay Load-Bearing Wall Tile, 818.
Tentative Specifications for Gypsum Partition Tile or Block, 840.

Timber.
Basic grades as applied to Douglas fir and southern pine, 599.
Proposed Revisions of Tentative Methods of Testing Small Clear Specimens of Timber (D 143 – 22 T). Report of Sub-Committee IX, Committee D-7, Appendix, 616.
Specifications for Timber. Report of Sub-Committee I, Committee D-7, 594.
Tentative Methods for Conducting Static Tests of Timbers in Structural Sizes, 976.
Tentative Methods of Testing Small Clear Specimens of Timber, 939.
Timber. Report of Committee D-7, 591.
Use Specifications: Bridges and Trestles, 609.
Use Specifications: Buildings, 609.

Timber Preservatives.
Tentative Methods of Chemical Analysis of Zinc Chloride, 995.
Timber Preservatives. Report of Sub-Committee VI, Committee D-7, 611.

Time of Set.
Electrical Resistance Methods for the Determination of the Time of Set of Lime Plaster. J. W. Stockett, Jr. Report of Committee C-7, Appendix, 404.

Tin.
Tentative Specifications for Phosphor Tin, 779.

Titanium.
Methods of Analysis and Reports of Collaborators on the Analysis of Titanium Pigments. Report of Sub-Committee VIII, Committee D-1, Appendix, 443.
Tentative Methods of Routine Analysis of Titanium Pigments, 859.

Tool Steel.
Tentative Specifications for Carbon Tool Steel, 765.
Tentative Specifications for High-Speed Tool Steel, 771.

Tubes.
Tentative Specifications for Seamless Muntz Metal Condenser Tubes and Ferrule Stock, 799.
Tentative Specifications for Seamless 70-30 Brass Condenser Tubes and Ferrule Stock, 794.

Turpentine.
Turpentine. Report of Sub-Committee XII, Committee D-1, 461.

V

Varnish.
Interpretation of the Water Test. E. A. Stoppel. Report of Sub-Committee IX, Committee D-1, Appendix, 455.
Tentative Methods of Testing Insulating Varnishes, 1023.
Tentative Methods of Testing Oleo-Resinous Varnishes, 854.
Tentative Revision of the Standard Methods of Testing Oleo-Resinous Varnishes, 1124.
Varnish. Report of Sub-Committee IX, Committee D-1, 452.

Viscosity.
Tentative Methods of Test for Viscosity of Petroleum Products and Lubricants, 883.
Viscosity. Report of Sub-Committee V, Committee D-2, 522.

W

Wall Board.
Tentative Specifications for Gypsum Wall Board, 838.

Walls.
Design of concrete structures, 338.

Water.
Water and Sediment. Report of Sub-Committee XIV, Committee D-2, 548.

Water Test.
Interpretation of the Water Test. E. A. Stoppel. Report of Sub-Committee IX, Committee D-1, Appendix, 455.

Water Treatment.
Tentative Specifications for Hydrated Lime for Use in Water Treatment, 811.
Tentative Specifications for Quicklime for Use in Water Treatment, 809.

Waterproofing.
Final Report of Sub-Committee, Committee D-8, on Service Tests of Waterproofing Materials in General, 624.
Tentative Methods of Testing Bituminous Mastics, Grouts and Like Mixtures, 1017.
Tentative Specifications for Asphalt for Use in Damp-proofing and Waterproofing Above Ground Level, 1001.
Tentative Specifications for Asphalt for Use in Damp-proofing and Waterproofing Below Ground Level, 999.
Tentative Specifications for Asphalt Mastic for Use in Waterproofing, 1011.
Tentative Specifications for Bituminous Grout for Use in Waterproofing Above Ground Level, 1013.
Tentative Specifications for Bituminous Grout for Use in Waterproofing Below Ground Level, 1015.

Waterproofing *(Continued)*:
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Dampproofing and Waterproofing Above Ground Level, 1009.
Tentative Specifications for High-Bitumen Coal-Tar Pitch for Use in Dampproofing and Waterproofing Below Ground Level, 1007.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Dampproofing and Waterproofing Above Ground Level, 1005.
Tentative Specifications for High-Carbon Coal-Tar Pitch for Use in Dampproofing and Waterproofing Below Ground Level, 1003.
Waterproofing and protective treatment of concrete, 333.
Waterproofing Materials. Report of Committee D-8, 618.

Wax.
Paraffin Wax. Report of Sub-Committee III, Committee D-2, 511.
Tentative Method of Test for Determination of Wax in Shellac, 856.

White Metals.
Discussion on White Metal Alloys, 275.
The Effect of Impurities on the Compressive Strength and Brinell Hardness of Babbitt Metal at Normal and Elevated Temperatures. John R. Freeman, Jr., and Paul F. Brandt. Report of Committee B-2, Appendix I, 253. Discussion, 275.

Wire.
Tentative Revision of the Standard Specifications for Electrolytic Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 1118.
Tentative Revision of the Standard Specifications for Lake Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars, 1117.

Wrought Iron.
Discussion on proposed revised Specifications for Iron and Steel Chain, 211.
Revisions of Standards and Tentative Standards for Wrought Iron. Report of Committee A-2, Appendix, 209.
Wrought Iron. Report of Committee A-2, 206. Discussion, 211.

Y

Yarns.
Tentative Specifications for Tolerances and Test Methods for Cotton Yarns, Single and Plied, 1066.
Tentative Specifications for Tolerances and Test Methods for Electrical Cotton Yarns, 1071.

Yield Point.
Discussion on White Metal Alloys, 275.

Z

Zinc.
Tentative Specifications for Hot-Dipped Galvanized Sheets, 775.

Zinc Chloride.
Tentative Methods of Chemical Analysis of Zinc Chloride, 995.

AUTHOR INDEX

A

Abrams, D. A.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Aertsen, Guilliaem.
Annual Address by the President, 44.
Annual Report of the Executive Committee, 47.

Anderson, H. M.
Report of Sub-Committee XVI, Committee D-2, Appendix: A Proposed Modification of the A.S.T.M. Pour Test Applicable to Those Oils which Give Erratic Results by the Present Method, 553.

Ashton, Ernest.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Aston, James.
Report of Committee A-5 on Corrosion of Iron and Steel, 220.

B

Bassett, W. H.
Report of Committee E-4 on Metallography, 736.

Baxter, F. R.
Report of Sub-Committee I, Committee D-2, on Petrolatum, 509.

Bayer, L. F.
Report of Sub-Committee XXII, Committee D-2, on Natural Gasoline, 568.

Berry, H. C.
Report of Committee C-7 on Lime, 397.

Blough, E.
Report of Committee B-2, Appendix II: High-Strength Light Alloys, 258.

Bonney, R. D.
Report of Sub-Committee V, Committee D-1, on Linseed Oil, 432.

Bowles, J. T-B.
Report of Sub-Committee XI, Committee D-2, on Emulsification, 531.

Boyer, E. D.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Boylston, H. M.
Report of Committee A-4 on Heat Treatment of Iron and Steel, 217.

Brandt, P. F.
Report of Committee B-2, Appendix I: The Effect of Impurities on the Compressive Strength and Brinell Hardness of Babbitt Metal at Normal and Elevated Temperatures, 253.

Breyer, F. G.
Discussion, 729.
Brown, R. P.
Report of Committee C-7 on Lime, 397.
Burgess, G. K.
Fifth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Structural Steel, 185.
Fourth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Metallographic Investigation of Effect of Sulfur on Rivet Steel, 108.
Third Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Endurance Properties of Rivet Steel, 96.
Burrows, C. W.
Report of Committee A-6 on Magnetic Properties, 237.

C

Campbell, William.
Report of Committee B-2 on Non-Ferrous Metals and Alloys, 242.
Capp, J. A.
Report of Committee E-1 on Methods of Testing, 697.
Carpenter, A. W.
Report of Sub-Committee XIV, Committee D-1, on Preparation of Iron and Steel Surfaces for Painting, 466.
Chapman, Cloyd M.
Report of Committee E-8 on Nomenclature and Definitions, 746.
Church, S. R.
Report of Sub-Committee VI, Committee D-7, on Timber Preservatives, 611.
Cole, E. J.
Report of Sub-Committee IX, Committee D-1, on Varnish, 452.
Comstock, G. F.
Report of Committee E-4 on Metallography, 736.
Discussion, 181.
Cooper, W. A.
Report of Sub-Committee V, Committee A-5, on Total Immersion Tests, 226.
Cowan, W. A.
Report of Committee B-2, Appendix III: Commercial Practice Relating to Sizes of Lead Pipe, 265.
Discussion, 275.
Cox, D. C.
Report of Committee D-9, Appendix IV: A Method for Estimating Acidity of Oils, 659.
Crosby, P. A.
Report of Sub-Committee IX, Committee D-2, on Precipitation, 528.

D

Davies, G. C.
Report of Committee A-3 on Cast Iron, 213.

Dean, E. W.
Report of Sub-Committee VIII, Committee D-2, on Distillation, 527.
Report of Sub-Committee XII, Committee D-2, on Flash, 539.

E

Emley, W. E.
Report of Committee C-3 on Brick, 386.
Report of Committee C-11 on Gypsum, 423.

F

Fahy, F. P.
Report of Committee A-8 on Magnetic Analysis, 239.

Farmer, F. M.
Report of Committee D-9 on Electrical Insulating Materials, 626.
Report of Committee D-11 on Rubber Products, 666.
Report of Committee E-8, Appendix: Memorandum on Specific Gravity, 760.

Fieldner, A. C.
Report of Committee D-5 on Coal and Coke, 587.

Fisher, R. T.
Report of Committee D-13 on Textile Materials, 670.

Freeman, J. R., Jr.
Report of Committee B-2, Appendix I: The Effect of Impurities on the Compressive Strength and Brinell Hardness of Babbitt Metal at Normal and Elevated Temperatures, 253.
Discussion, 280.

Freeman, M. H.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Fulweiler, W. H.
Report of Committee D-15 on Thermometers, 675.

G

Gardner, H. A.
Report of Sub-Committee III, Committee D-1, on Testing of Paint Vehicles, 430.

Gibboney, J. H.
Report of Committee A-5 on Corrosion of Iron and Steel, 220.
Report of Sub-Committee III, Committee A-5, on Inspection of the Fort Sheridan, Pittsburgh, and Annapolis Tests, 223.

Giles, I. K.
Report of Sub-Committee VI, Committee D-2, on Color, 524.
Report of Sub-Committee XVII, Committee D-2, on Gasoline, 557.

Goldbeck, A. T.
Report of Committee C-9 on Concrete and Concrete Aggregates, 408; Addendum to Report of Committee C-9, 410.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Greenman, R. S.
Report of Committee C-1 on Cement, 296.

Groesbeck, E. C.
Discussion, 740.

Gundlach, H. R.
Report of Sub-Committee XIV, Committee D-2, on Water and Sediment, 548.

H

Hadwen, T. L. D.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Hall, J. H.
Report of Committee A-4 on Heat Treatment of Iron and Steel, 217.

Hallett, R. L.
Report of Committee D-1 on Preservative Coatings for Structural Materials, 427.

Hammond, G. T.
Report of Committee C-4 on Clay and Cement-Concrete Sewer Pipe, 388.

Hecht, Max.
Report of Sub-Committee XIII, Committee D-2, Appendix: Report on Concentration Cell Method of D. C. Cox for Organic Acidity, 545.

Herschel, W. H.
Report of Sub-Committee V, Committee D-2, on Viscosity, 522.
Report of Sub-Committee XIII, Committee D-2, on Organic Acidity and Saponification, 543.

Hollister, S. C.
Report of Committee C-2 on Reinforced Concrete, 302.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Hubbard, Prévost.
Report of Committee D-4 on Road and Paving Materials, 571; Addendum to Report of Committee D-4, 585.
Report of Committee D-8 on Waterproofing Materials, 618.

Hughes, E. E.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Hull, F. A.
Report of Sub-Committee VIII, Committee A-5, on Tests of Metallic Coatings, 235.

Humphrey, Richard L.
Report of Committee C-2 on Reinforced Concrete, 302.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Huse, F. J.
Report of Committee C-10 on Hollow Building Tile, 411.

I

Ingberg, S. H.
Report of Committee C-10 on Hollow Building Tile, 411.

Irwin, A. C.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

J

James, W. S.
Report of Sub-Committee X, Committee D-2, on Oxidation at High Temperatures, 530.

Jury, A. E.
Report of Committee D-13 on Textile Materials, 670.

K

Kelley, F. W.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Knerr, H. C.
Discussion, 725.

L

Lane, F. W.
Report of Sub-Committee XXIII, Committee D-2, on Carbon Residue, 569.

Lang, P. G., Jr.
Final Report of Sub-Committee, of Committee D-8, on Service Tests of Waterproofing Materials in General, 624.

Langenberg, F. C.
Report of Committee A-9 on Ferro-Alloys, 241.

Lathrop, E. C.
Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 281.

Lawson, T. R.
Report of Committee C-3 on Brick, 386.

Lesley, R. W.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Lindau, A. E.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Lunn, C. A.
Report of Sub-Committee XVIII, Committee D-2, on Gas Oil, 558.

Lysle, F. B.
Report of Committee C-4 on Clay and Cement-Concrete Sewer Pipe, 388.

M

Mackenzie, K. G.
Report of Sub-Committee XX, Committee D-2, on Nomenclature, 563.

MacMillan, A. B.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

MacMillan, F. R.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Manning, Van. H.
Report of Committee D-2 on Petroleum Products and Lubricants, 505.

Marani, V. G.
Report of Committee C-11 on Gypsum, 423.

Markwardt, L. J.
Report of Sub-Committee IX, Committee D-7, on Methods of Testing, 614.

Marshall, C. H.
Discussion, 726.

Marston, Anson.
Report of Committee C-6 on Drain Tile, 391.

Martin, C. B.
Report of Committee D-11 on Rubber Products, 666.

Matthews, R. R.
Report of Sub-Committee XVI, Committee D-2, on Cloud and Pour Test, 550.

McAdam, D. J., Jr.
Discussion, 183.

McKnight, Charles, Jr.
Report of Committee A-9 on Ferro-Alloys, 241.

Merica, P. D.
Report of Committee B-2 on Non-Ferrous Metals and Alloys, 242.

Moisseiff, L. S.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Moldenke, Richard.
Report of Committee A-3 on Cast Iron, 213.

Moore, E. J.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Moore, H. F.
Discussion, 731.

Moore, R. R.
Discussion, 732.

Muckenfuss, A. M.
Report of Sub-Committee XXIII, Committee D-1, on Anti-Fouling Paints, 491.

Mueller, E. F.
Report of Committee D-15 on Thermometers, 675.

N

Nemzek, L. P.
Report of Sub-Committee VI, Committee D-1, on Definitions of Terms Used in Paint Specifications, 441.

Newlin, J. A.
Report of Committee D-7 on Timber, 591.
Report of Committee D-10 on Shipping Containers, 661.

P

Paisley, J. W.
Report of Sub-Committee XIII, Committee D-1, on Shellac, 462.

Paul, C. E.
Report of Sub-Committee I, Committee D-7, on Specifications for Timber, 594.

Pearson, J. C.
Report of Committee C-9 on Concrete and Concrete Aggregates, 408: Addendum to Report of Committee C-9, 410.
Report of Sub-Committee III, Committee C-1, on Fineness, 299.

Petrenko, S. N.
Discussion, 728.

Phillips, E. B.
Report of Sub-Committee III, Committee D-2, on Paraffin Wax, 511.

Pickels, G. W.
Report of Committee C-6 on Drain Tile, 391.

Plaskett, C. A.
Report of Committee D-10 on Shipping Containers, 661.

Porter, H. C.
Report of Committee D-5 on Coal and Coke, 587.

Provost, A. J., Jr.
Report of Committee C-4 on Clay and Cement-Concrete Sewer Pipe, 388.

Q

Quimby, H. H.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

R

Rather, J. B.
Report of Sub-Committee XVI, Committee D-2, Appendix: A Proposed Modification of the A.S.T.M. Pour Test Applicable to Those Oils which Give Erratic Results by the Present Method, 553.
Report of Sub-Committee XIX, Committee D-2, on Illuminating Oils, 559.

Rawdon, H. S.
Report of Sub-Committee VII, Committee A-5, on Accelerated Tests, 234.

Rogers, Allen.
Report of Committee D-1 on Preservative Coatings for Structural Materials, 427.

S

Sanford, R. L.
Report of Committee A-6 on Magnetic Properties, 237.
Report of Committee A-8 on Magnetic Analysis, 239.

Schall, F. E.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Selvig, W. A.
Report of Committee D-5 on Coal and Coke, 587.

Slater, W. A.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Smith, F. P.
Report of Committee D-4 on Road and Paving Materials, 571; Addendum to Report of Committee D-4, 585.

Smith, H. E.
Report of Committee A-2 on Wrought Iron, 206.
Report of Sub-Committee VI, Committee A-5, on Specifications for Galvanized Sheets, 233.
Report of Sub-Committee XV, Committee D-1, on Specifications for Pigments Dry and in Oil, When Marketed in that Form, 477.
Discussion, 212.

Smith, N. A. C.
Report of Sub-Committee VII, Committee D-2, on Sulfur Determination and Differentiation, 525.
Report of Sub-Committee XXI, Committee D-2, on Crude Petroleum, 566.

Smither, F. W.
Report of Sub-Committee VIII, Committee D-1, on Methods of Analysis of Paint Materials, 442.

Snyder, E. A.
Report of Committee D-9, Appendix I: Life Test for Transformer Oils, 638.

Stockett, J. W., Jr.
Report of Committee C-7, Appendix: Electrical Resistance Methods for the Determination of the Time of Set of Lime Plaster, 404.

Stoppel, E. A.
Report of Sub-Committee IX, Committee D-1, Appendix: Interpretation of the Water Test, 455.

T

Templin, R. L.
Discussion, 728.

Thompson, S. E.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Touceda, Enrique.
Report of Committee A-7 on Malleable Castings, 238.

Tour, Sam.
Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 281.

V

Van Gundy, C. P.
Report of Committee D-2 on Petroleum Products and Lubricants, 505.

Vanick, J. S.
Discussion, 726.

Vassar, H. S.
Report of Committee D-9 on Electrical Insulating Materials, 626.

Veitch, F. P.
Report of Sub-Committee XII, Committee D-1, on Turpentine, 461.

von Schrenk, Hermann.
Report of Committee D-7 on Timber, 591.

W

Wagner, S. T.
Report of Committee D-8 on Waterproofing Materials, 618.

Warwick, C. L.
Annual Report of the Executive Committee, 47.
Fifth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Structural Steel, 185.
Fourth Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Metallographic Investigation of Effect of Sulfur on Rivet Steel, 108.
Report of Committee E-1 on Methods of Testing, 697.
Report of Committee E-6 on Papers and Publications, 743.
Report of Committee E-8 on Nomenclature and Definitions, 746.
Third Preliminary Report of the Joint Committee on Investigation of Phosphorus and Sulfur in Steel: Effect of Sulfur on Endurance Properties of Rivet Steel, 96.

Waring, F. M.
Report of Committee A-1 on Steel, 65.

Wiggin, T. H.
Discussion, 211.

Wilson, R. E.
Report of Sub-Committee IV, Committee D-2, on Grease, 513.

Woodroofe, G. H.
Report of Committee A-1 on Steel, 65.

Y

Yates, J. J.
Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, 303.

Young, J. B.
Report of Committee A-2 on Wrought Iron, 206.

Young, R. B.
Report of Committee C-1 on Cement, 296.